Author Index

Ahmad, S. M.	Dynamic modelling and open-loop control of a twin rotor multi-input multi-output system	477–496
Al-Balushi, K. R.	Gear fault diagnosis using energy-based features of acoustic emission signals	249–263
Allard, B.	Non-linear control design for a boost converter using bond graphs	1–11
Bailey, S.	A neural network approach to transmission line modelling and fault diagnosis of a hydraulic press control system	357–367
Borutzky, W.	Bond graphs and object-oriented modelling—a comparison	21–33
Borutzky, W.	Bond graph based frequency domain sensitivity analysis of multidisciplinary systems	85–99
Bouazza-Marouf, K.	Composite adaptive control of a robotic joint for passive deployment applications	275–289
Brown, F. T.	Non-iterative evaluation of multiphase thermal compliances in bond graphs	13–19
Brunelli, M.	Impedance and stability characteristics of a relief valve	371–382
Buisson, J.	Analysis of the bond graph model of hybrid physical systems with ideal switches	47–63
Camporeale, S. M.	Control of gas turbine power plants by means of the weighted one-step-ahead adaptive technique	317–324
Chipperfield, A. J.	Dynamic modelling and open-loop control of a twin rotor multi-input multi-output system	477–496
Cho, S. H.	Sliding mode tracing control of a low-pressure water hydraulic cylinder under non-linear friction	383–392
Cormerais, H.	Analysis of the bond graph model of hybrid physical systems with ideal switches	47–63
Dambrosio, L.	Control of gas turbine power plants by means of the weighted one-step-ahead adaptive technique	317–324
Edge, K. A.	Impedance and stability characteristics of a relief valve	371–382
Edström, K.	Algorithmic, physical based mode initialization when simulating hybrid systems	65–72
Eksin, İ.	Self-tuning mechanism for sliding surface slope adjustment in fuzzy sliding mode controllers	393–406
Eksin, İ.	A new design method for sliding mode controllers using a linear time-varying sliding surface	455–466
Elkari, A.	Robust adaptive fuzzy control application to uncertain non-linear systems in robotics	225–235
Emara-Shabaik, H. E.	A non-linear multiple-model state estimation scheme for pipeline leak detection and isolation	497–512
Ferreira, J. A.	Semi-empirical model for a hydraulic servo-solenoid valve	237–248
Fortunato, B.	Control of gas turbine power plants by means of the weighted one-step-ahead adaptive technique	317–324
Fujimori, A.	A modification of cooperative collision avoidance for multiple mobile robots using the avoidance circle	291–299
Gawthrop, P. J.	Transfer function and frequency response estimation using resonant filters	441–453
Glad, S. T.	Algorithmic, physical based mode initialization when simulating hybrid systems	65–72
Gomes de Almeida, F.	Semi-empirical model for a hydraulic servo-solenoid valve	237–248
Granda, J.	Bond graph based frequency domain sensitivity analysis of multidisciplinary systems	85–99
Guo, L. Z.	A pole placement controller for non-linear dynamic plants	467–476
Güzelkaya, M.	Self-tuning mechanism for sliding surface slope adjustment in fuzzy sliding mode controllers	393–406
Güzelkaya, M.	A new design method for sliding mode controllers using a linear time-varying sliding surface	455–466
Hamzaoui, A.	Robust adaptive fuzzy control application to uncertain non-linear systems in robotics	225–235
Huang, H.-T.	Linear servo motor control using adaptive neural networks	407–428
Huang, S. N.	Iterative learning algorithm with a quadratic criterion for linear time-varying systems	309–316
Hussaini, I.	A non-linear multiple-model state estimation scheme for pipeline leak detection and isolation	497–512
Jeyakumaran, J. M.	Modelling of dynamic characteristics of an automatic transmission during shift changes	331–341
Johnston, D. N.	Impedance and stability characteristics of a relief valve	371–382
Jones, N. B.	A high-level technique for diesel engine combustion system condition monitoring and fault diagnosis	125–134

© IMechE 2002

Jones, N. B.	Fuzzy model-based condition monitoring and fault diagnosis of a diesel engine cooling system	215–224
Karkoub, M. A.	Modelling and non-linear discontinuous feedback control of crane lifter systems	157–167
Khulief, Y. A.	A non-linear multiple-model state estimation scheme for pipeline leak detection and isolation	497–512
Koskinen, K. T.	Sliding mode tracking control of a low-pressure water hydraulic cylinder under non-linear friction	383–392
Krus, P.	Modelling and validation of a fast switching valve intended for combustion engine valve trains	105–116
Lee, T. H.	Iterative learning algorithm with a quadratic criterion for linear time-varying systems	309–316
Li, L.	System identification and predictive control of laser marking of ceramic materials using artificial neural networks	181–190
Lin, C.-L.	Linear servo motor control using adaptive neural networks	407–428
Linjama, M.	Sliding mode tracking control of a low-pressure water hydraulic cylinder under non-linear friction	383–392
Lin-Shi, X.	Non-linear control design for a boost converter using bond graphs	1–11
Liu, D. K.	Modelling of dynamic characteristics of an automatic transmission during shift changes	331–341
Louca, L. S.	Ideal physical element representation from reduced bond graphs	73–83
Lucas, T. N.	The bilinear method: a new stability-preserving order reduction approach	429–436
Maiti, R.	The static and dynamic chacteristics of a pressure relief valve with a proportional solenoid-controlled pilot stage	143–156
Mehrabian, M. A.	Measuring the dew point temperature of humid air using a photoelectric system	325–330
Miro, J. V.	Quasi-optimal trajectory planning and control of a CRS A251 industrial robot	343–356
Mohamed, Z.	Vibration control of a single-link flexible manipulator using command shaping techniques	191–210
Monsees, G.	Air–fuel ratio and speed control for low emission vehicles based on sliding mode techniques	117–124
Morel, H.	Non-linear control design for a boost converter using bond graphs	1–11
Morton, D.	System identification and predictive control of laser marking of ceramic materials using artificial neural networks	181–190
Mosterman, P. J.	HyBrSim—a modelling and simulation environment for hybrid bond graphs	35–46
Nezu, K.	Extracting symptoms of bearing faults from noise using a non-linear neutral filter	169–179
Nikiforuk, P. N.	A modification of cooperative collision avoidance for multiple mobile robots using the avoidance circle	291–299
Ogawa, Y.	A modification of cooperative collision avoidance for multiple mobile robots using the avoidance circle	291–299
Palmberg, J.-O.	Modelling and validation of a fast switching valve intended for combustion engine valve trains	105–116
Peligrad, A. A.	System identification and predictive control of laser marking of ceramic materials using artificial neural networks	181–190
Pohl, J.	Modelling and validation of a fast switching valve intended for combustion engine valve trains	105–116
Puleston, P. F.	Air–fuel ratio and speed control for low emission vehicles based on sliding mode techniques	117–124
Quintas, M. R.	Semi-empirical model for a hydraulic servo-solenoid valve	237–248
Reedman, A. V. C.	Composite adaptive control of a robotic joint for passive deployment applications	275–289
Retif, J.-M.	Non-linear control design for a boost converter using bond graphs	1–11
Richard, P.-Y.	Analysis of the bond graph model of hybrid physical systems with ideal switches	47–63
Saha, R.	The static and dynamic chacteristics of a pressure relief valve with a proportional solenoid-controlled pilot stage	143–156
Sairiala, H.	Sliding mode tracking control of a low-pressure water hydraulic cylinder under non-linear friction	383–392
Samanta, B.	Gear fault diagnosis using energy-based features of acoustic emission signals	249–263
Sanada, K.	A method of designing a robust force controller of a water-hydraulic servo system	135–141
Sethson, M.	Modelling and validation of a fast switching valve intended for combustion engine valve trains	105–116
Shao, Y.	Extracting symptoms of bearing faults from noise using a non-linear neutral filter	169–179
Song, G.	Robust position regulation of a shape memory alloy wire actuator	301–308
Spurgeon, S. K.	Air–fuel ratio and speed control for low emission vehicles based on sliding mode techniques	117–124
Stein, J. L.	Ideal physical element representation from reduced bond graphs	73–83
Tan, K. K.	Iterative learning algorithm with a quadratic criterion for linear time-varying systems	309–316

© IMechE 2002

Tokat, S.	Self-tuning mechanism for sliding surface slope adjustment in fuzzy sliding mode controllers	393–406
Tokat, S.	A new design method for sliding mode controllers using a linear time-varying sliding surface	455–466
Tokhi, M. O.	Vibration control of a single-link flexible manipulator using command shaping techniques	191–210
Tokhi, M. O.	Dynamic modelling and open-loop control of a twin rotor multi-input multi-output system	477–496
Twiddle, J. A.	A high-level technique for diesel engine combustion system condition monitoring and fault diagnosis	125–134
Twiddle, J. A.	Fuzzy model-based condition monitoring and fault diagnosis of a diesel engine cooling system	215–224
Vilenius, M.	Sliding mode tracking control of a low-pressure water hydraulic cylinder under non-linear friction	383–392
Villanueva, L.	Modelling of dynamic characteristics of an automatic transmission during shift changes	331–341
Wang, L.	Transfer function and frequency response estimation using resonant filters	441–453
Warwick, K.	A neural network enhanced generalized minimum variance self-tuning proportional, integral and derivative control algorithm for complex dynamic systems	265–273
Watton, J.	The static and dynamic chacteristics of a pressure relief valve with a proportional solenoid-controlled pilot stage	143–156
Watton, J.	A neural network approach to transmission line modelling and fault diagnosis of a hydraulic press control system	357–367
White, A. S.	Quasi-optimal trajectory planning and control of a CRS A251 industrial robot	343–356
Zaytoon, J.	Robust adaptive fuzzy control application to uncertain non-linear systems in robotics	225–235
Zhang, N.	Modelling of dynamic characteristics of an automatic transmission during shift changes	331–341
Zhou, E.	System identification and predictive control of laser marking of ceramic materials using artificial neural networks	181–190
Zhu, Q. M.	A neural network enhanced generalized minimum variance self-tuning proportional, integral and derivative control algorithm for complex dynamic systems	265–273
Zhu, Q. M.	A pole placement controller for non-linear dynamic plants	467–476
Ziaebrahimi, A.	Measuring the dew point temperature of humid air using a photoelectric system	325–330
Zribi, M.	Modelling and non-linear discontinuous feedback control of crane lifter systems	157–167

© IMechE 2002